

# Mink3a protein sequence

```

1  MGDPAPARSLDDIDLSALRDPAGIFELVEVVGNGTYGQVYKGRHVKTGQLAAIKVMDVTE
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121 KGNALKEDCIAIYICREILRGLAHLHAHKVIHRDIKQNVLLTENAEVKLVDFGVSAQLDR
181 TVGRRNTFIGTPYWMAPEVIACDENPDATYDYRSDIWSLGITAIEMAE GAPPLCDMHPMR
241 ALFLIPRNPPLRLSKKWSKKFIDFIDTCLIKTYLSRPPTTEQLLKFPFIRDQPTERQVRI
301 QLKDHIDRSRKKRGEKEETEYYSGSEEDDSHGEEGEPSSIMNVPGESTLRREFLRLQQ
361 ENKNSSEALKQQQQQLQQQQQORDPEAHIKHLLHQRRRIEEQKEERRRVEEQQRREREQRK
421 LQEKEQQRRLDMQALRREERROAEREQEYKQKQLEEQRQSERLQRLQQLQEHAYLKSLO
481 QQQQQQQQLQKQQQQQLLPGRKPLYHYGRGMNPADKPAWAREVEERTRMNKQONSPLAKS
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601 PAIPAPTATPSARGAVIRQNSDPTSEGGPGSPNPPAWVRPDNEAPPKVPQRTSSIAATALN
661 TSGAGGSRPAQAVRARPRNSAWQIYLQRRRAERGTPKPPGPPAQPFGPPNASSNPDLRRS
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781 DFLVLLKERTLDEAPRPPKAMDYSSSSEEVESSEDEEEGEGGPAEGSRDTPGGRSDGDT
841 DSVSTMVVDVEEITGTQPPYGGGTMVVQRTPEEERNLLHADSNGYTNLPDVPQPSHSPT
901 ENSKGQSPSPKSGSDYQSRGLVKAPGKSFTMFVDLGIYQPGGSGDSIPITALVGEGGT
961 RLDQLQYDVRKGSVVNVNPTNTRAHSETPEIRKYKKRFNSEILCAALWGVNLLVGTENGL
1021 MLLDRSGQKQVYGLIGRRRFQOMDVLEGLNLLITISGKRNLKRVYVLSWLRNKLHNDPE
1081 VEKKQGWTTVGDMEGCGHYRVVKYERIKFLVIALKSSVEVYAWAPKPYHKFMAFKSFADL
1141 PHRPLLVDLTVEEGQRLKVIYGSAGFHAVDSDSGNSYDIYIPVHIQSQITPHAIIFLEN
1201 TDGMEMLLCYEDEGVYVNTYGRICKDVVLQWGEMPTSVAYICSNQIMGWGEKAIEIRSVE
1261 TGHLDGVFMHKRAQLKFLCERNDKVFFASVRSRGSSQVYFMTLNRNCIMNW

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## Mink3a nucleotide sequence

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Fig. 1

Sheet 1

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### Mink3b protein sequence

1 MDVTEDEEEEEIKQEINMLKKYSHRNIAITYYGAFIKKSPPGNDQLWLVMFCGAGSVTD  
 61 LVKNTKGNALKEDCIAYICREILRGLAHLHAHKVIHRDIKQNVLLTENAIEVKLVDFGVS  
 121 AQLDRTVGRRNTFIGTPYWMapeVIACDENPDATYDYSRDIWSLGITAIEAEGAPPLCD  
 181 MHPMRALFLIPRNPPLRLSKKWSKKFIDFIDTCLIKTYLSRPPTQLLKFPFIRDQTE  
 241 RQVRIQLKDHIDRSRKKRGEKEETEYYSGSEEDDSHGEEGEPSSIMNVPGESTLRREF  
 301 LRLQENKSNSEALKQQQQQLQQQQQORDPEAHIKHLLHQRQRRIEEQKEERRRVEEQORRE  
 361 REQRKLOEKEQORRLEDMQALRREEERRQAEREQEYKRKQLEEQRQSERLQRQLQOEHA  
 421 LKSLQQQQQQQQLQKQQQQQLLPGRKPLYHYGRGMNPADKPAWAREVEERTRMNKQONS  
 481 PLAKSKPGSTGPEPPIQASPGPPGPLSQTPPMQRPVEPQEGPHKSLVAHRVPLKPYAAP  
 541 VPRSQSLQDQPTRNLAAFPASHDPDPAIPAPTATPSARGAVIRONSDPTSEGPSPNP  
 601 AWVRPDNEAPPKVPQRTSSIALNTSGAGGSRPAQAVRARPRNSAWQIYLQRRARERT  
 661 PKPPGPAPQPPGPNASSNPDLRSDPGWERSDSVLPASHGHLPLQAGSLERNRVGASSKL  
 721 DSSPVLSPGNKAKPDDHRSRPGRPVAVSHLVAGMACLILVWGLASGCWVSGVGSPLIYREG  
 781 LWGWRDWCFSWC

### Mink3b nucleotide sequence

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 ATCCCGGAAGAAGCGGGTGAGAAAGAGGAGACAGAATATGAGTACAGCGGCAGCGAGGA

Variable	Mean	SD	Min	Max
Age	35.5	10.5	20	65
Gender	0.5	0.5	0	1
Marital status	0.5	0.5	0	1
Education	12.5	1.5	9	16
Income	15.5	5.5	10	25
Health status	1.5	0.5	1	2
Stress level	2.5	1.5	1	5
Life satisfaction	3.5	1.5	1	5
Work-life balance	2.5	1.5	1	5
Family support	1.5	0.5	1	2
Community support	1.5	0.5	1	2
Work environment	1.5	0.5	1	2
Health insurance	1.5	0.5	1	2
Retirement plan	1.5	0.5	1	2
Job security	1.5	0.5	1	2
Work-life balance	2.5	1.5	1	5
Family support	1.5	0.5	1	2
Community support	1.5	0.5	1	2
Work environment	1.5	0.5	1	2
Health insurance	1.5	0.5	1	2
Retirement plan	1.5	0.5	1	2
Job security	1.5	0.5	1	2

## Fig. 1

Sheet 3

541 VPRSQSLQDQPTRNLAAFPASHDPDPAIPAPTATPSARGAVIRQNSDPTSEGPSPNP  
601 AWVRPDNEAPPKVPQRTSSIALNTSGAGGSRPAQAVRARPRNSAWQIYLQRRERGT  
661 PKPPGPPAQPQPPNASSNPDLRRSDPGWERSDSVLPASHGHLPPQAGSLERNVGCSSKL  
721 DSSPVLSPGNKAKPDDHRSRPGRPADFVLLKERTLDEAPRPPKAMDYSSSEEVESSED  
781 DEEEGEGGPAEGSRDTPGGRDGDSTDVSMTMVHDVEEITGTQPPYGGGTMMVQRTPEEER  
841 NLLHADSNGYTNLPDVPVQPSHSPTENSKGQSPPSKDGSGDYQSRGLVKAPGKSSFTMFVD  
901 LGIYQPGSGDSIPITALVGGEGTRLDQLOYDVRKGSVVNVNPTNTRAHSETPEIRKYKK  
961 RFNSEILCAALWGVNLLVGTENGLMLLLDRSGQKQVYGLIGRRRFQQMDVLEGLNLLITIS  
1021 GKRNKLRVYYLSWLRNKILHNDPEVEKKQGWTTVGDMEGCGHYRVVKYERIKFLVIALKS  
1081 SVEVYAWAPKPYHKFMAFKSFADLPHRPLLVDLTVEEGQRLKVIYGSSAGFHAADVDSGN  
1141 SYDIYIPVHIQSQITPHAIIFLPNTDGMEMLLCYEDEGVYVNTYGRIIKDVVLQWGEMPT  
1201 SVAYICSNQIMGWEKAIEIRSVETGHLDDGVFMHKRAQRLKFLCERNDKVFFASVRSGBS  
1261 SQVYFMTLNRNCIMNW

### Mink3c nucleotide sequence

ACCATTCTGGAAGCTCCCTAGAACTCTCTGGAATGCT  
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Fig. 1

Sheet 5

# The structure of Mink proteins

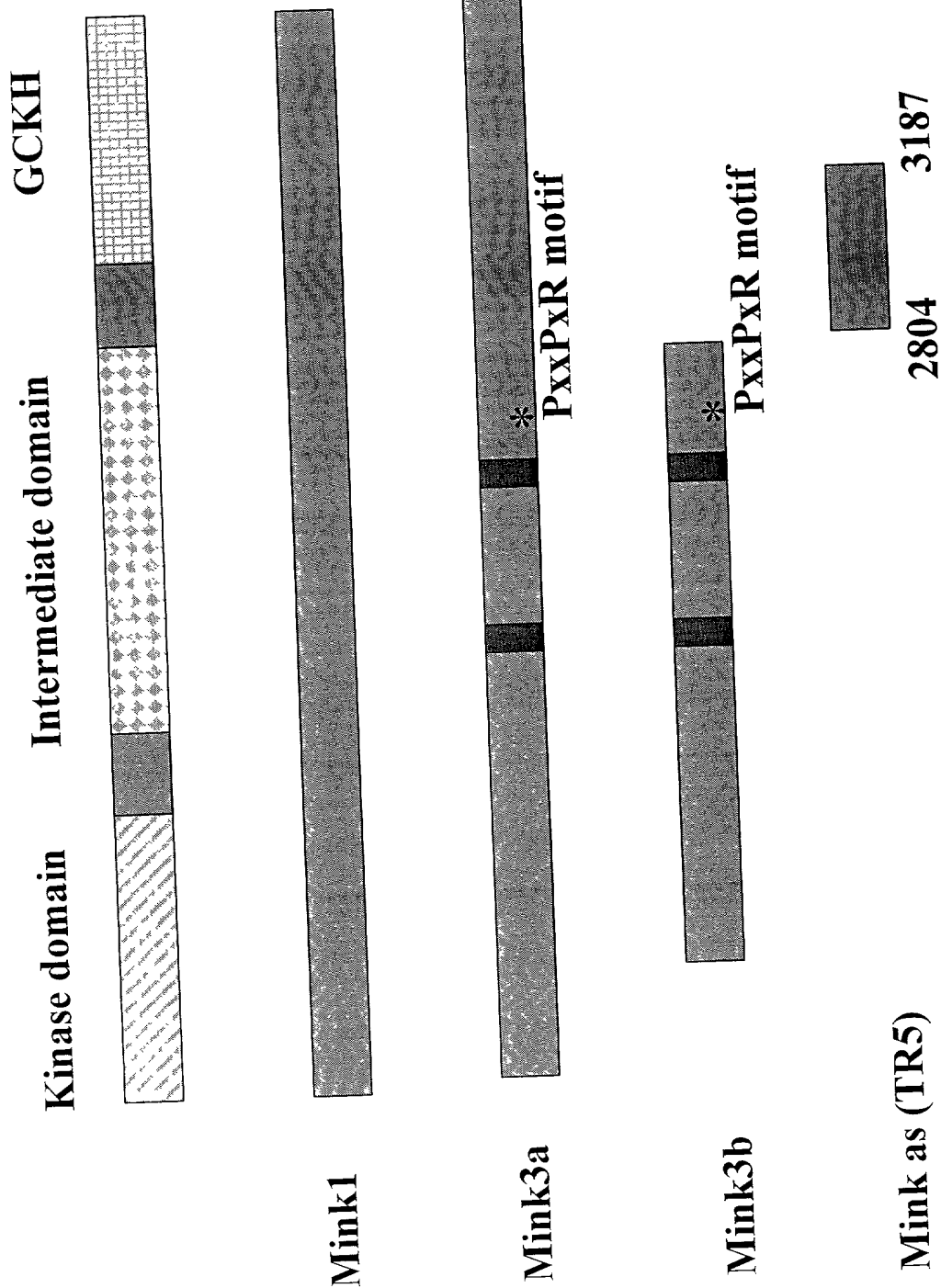


Fig. 2

# TR5 inhibits the transcriptional activity of AP1-luciferase reporter gene in 293 cells

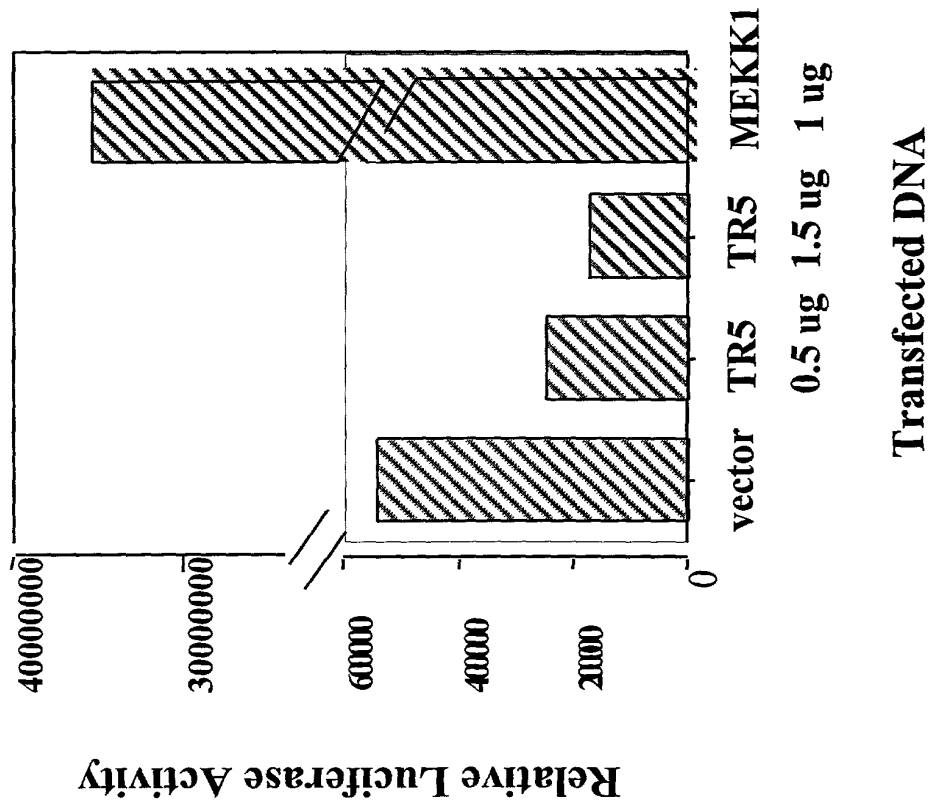


Fig. 3

# Signal pathways regulating Taxol-mediated apoptosis

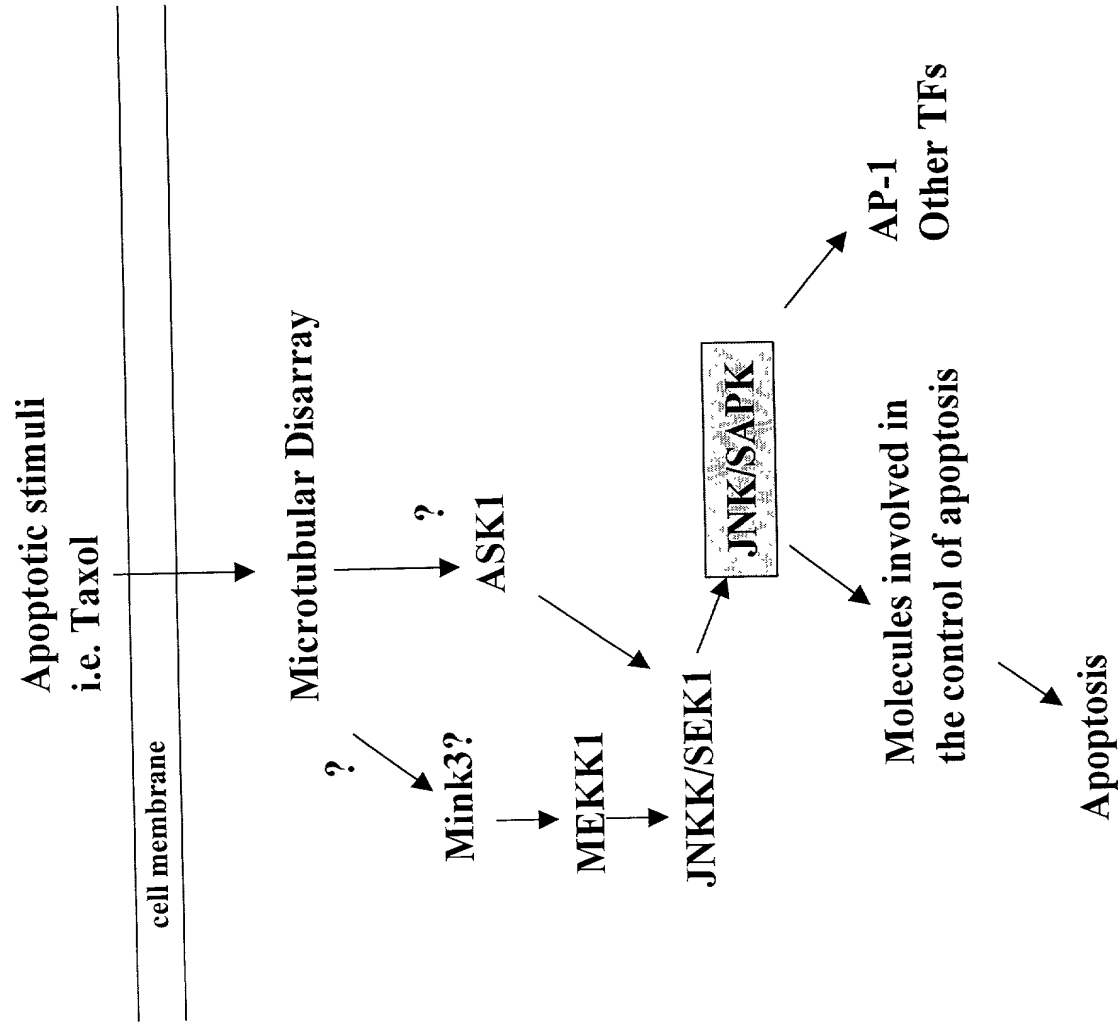


Fig. 4



# The signal transduction of MAPK pathways

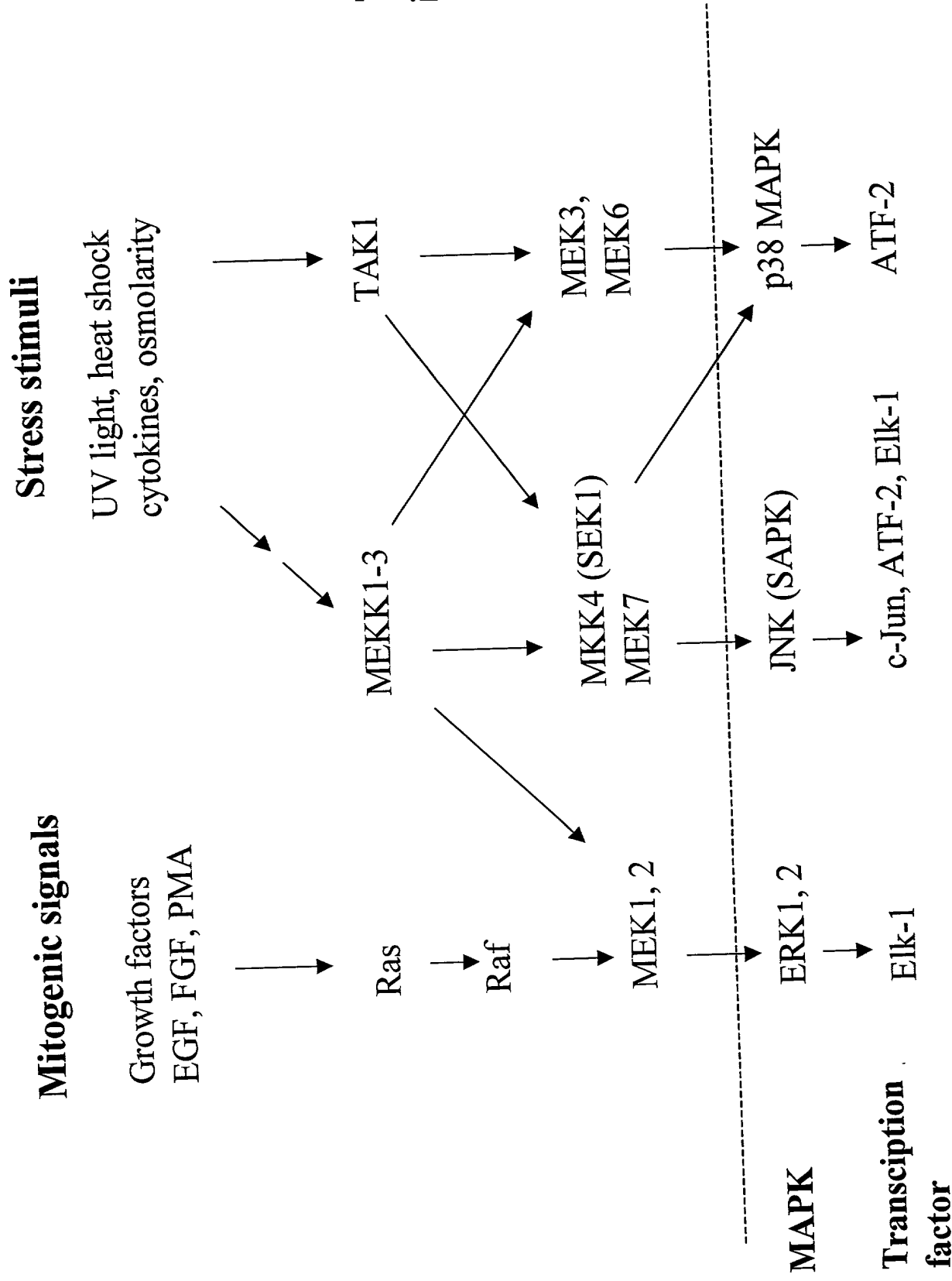


Fig. 5

## The MAPK signaling pathway

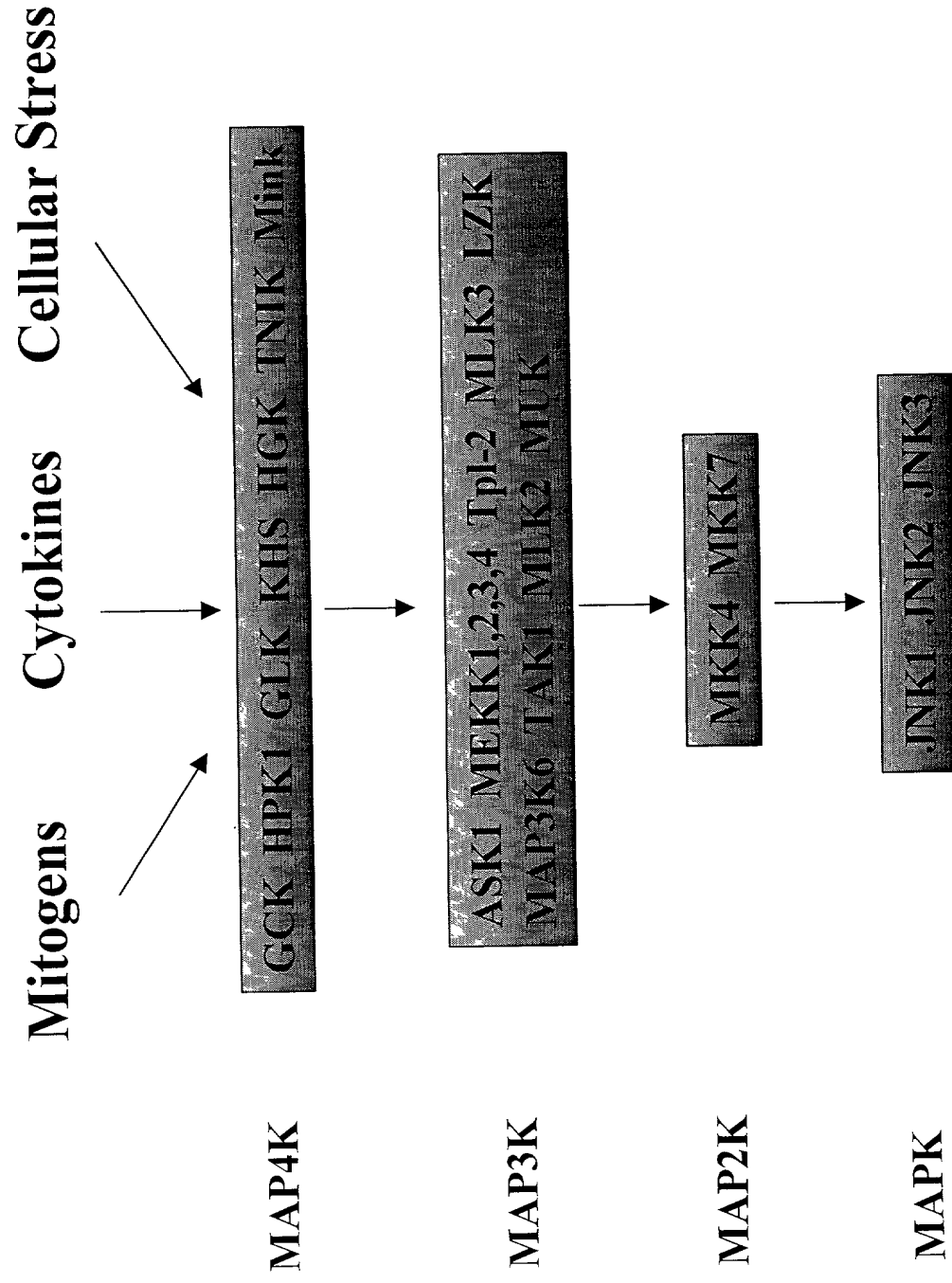


Fig. 6

# 3<sub>A</sub> Expression antisense of Mink confers Taxol-resistance in Hela cells

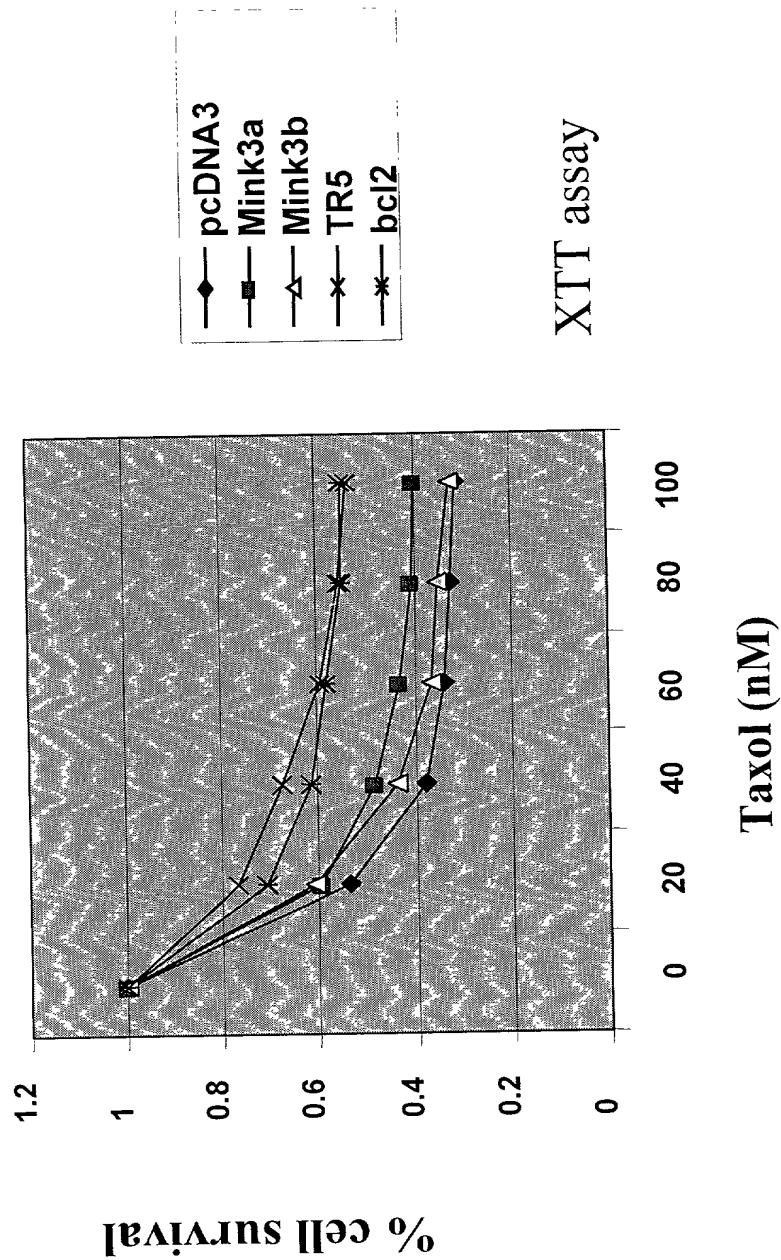


Fig. 7

# Expression of Mink3a in A549 cells slows down the cell growth in low serum medium

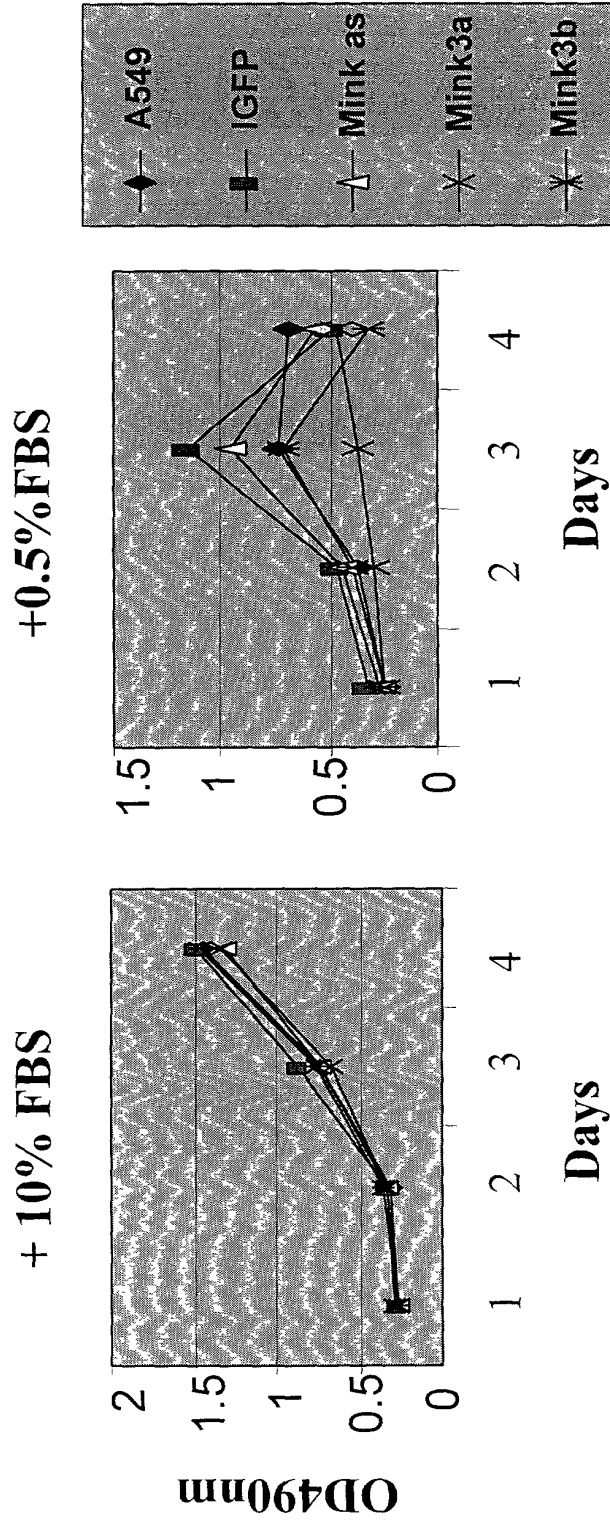


Fig. 8

## Expression of antisense of Mink inhibits EGF-mediated induction of ERK signal pathway

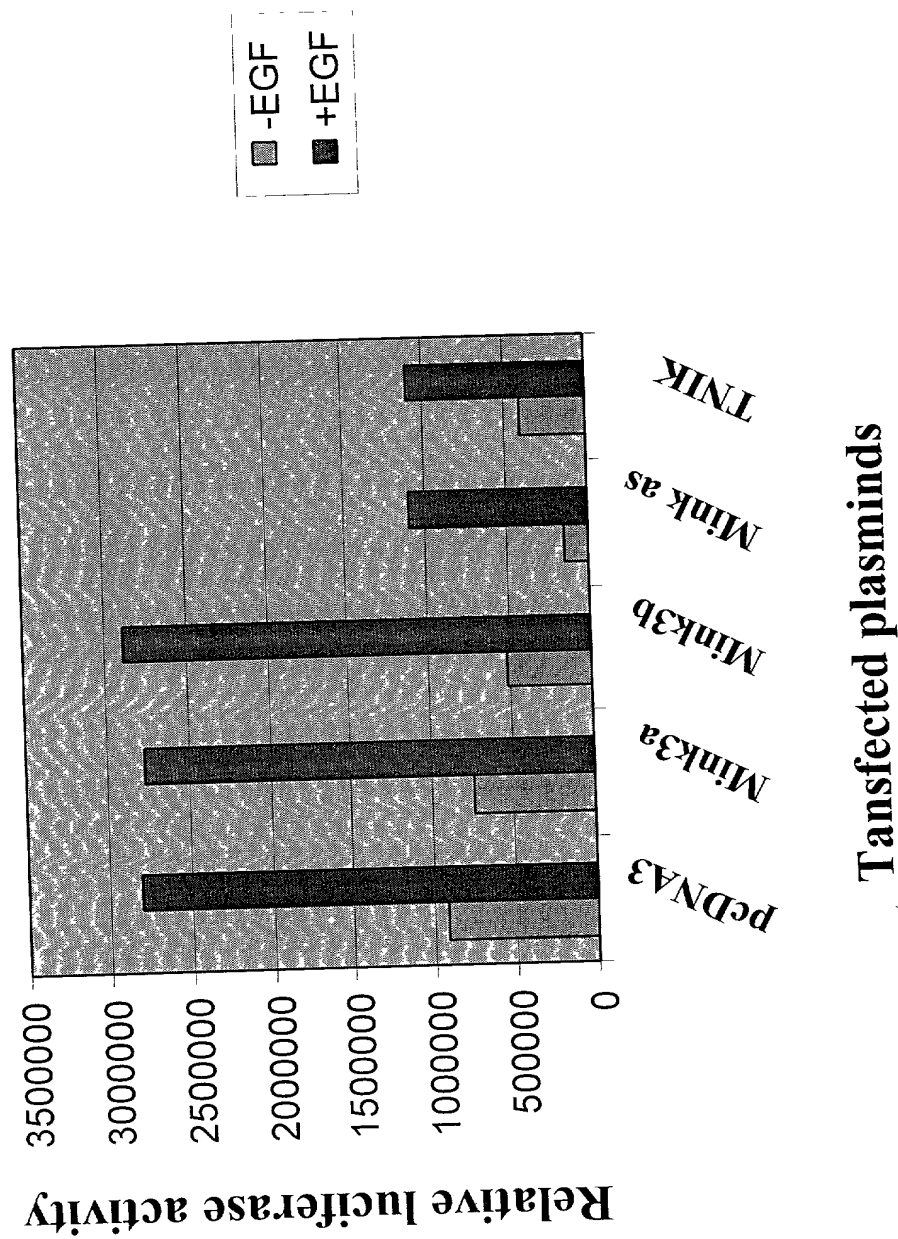


Fig. 9

# TR5 and Bcl2 block Taxol-induced cleavage of Rb protein

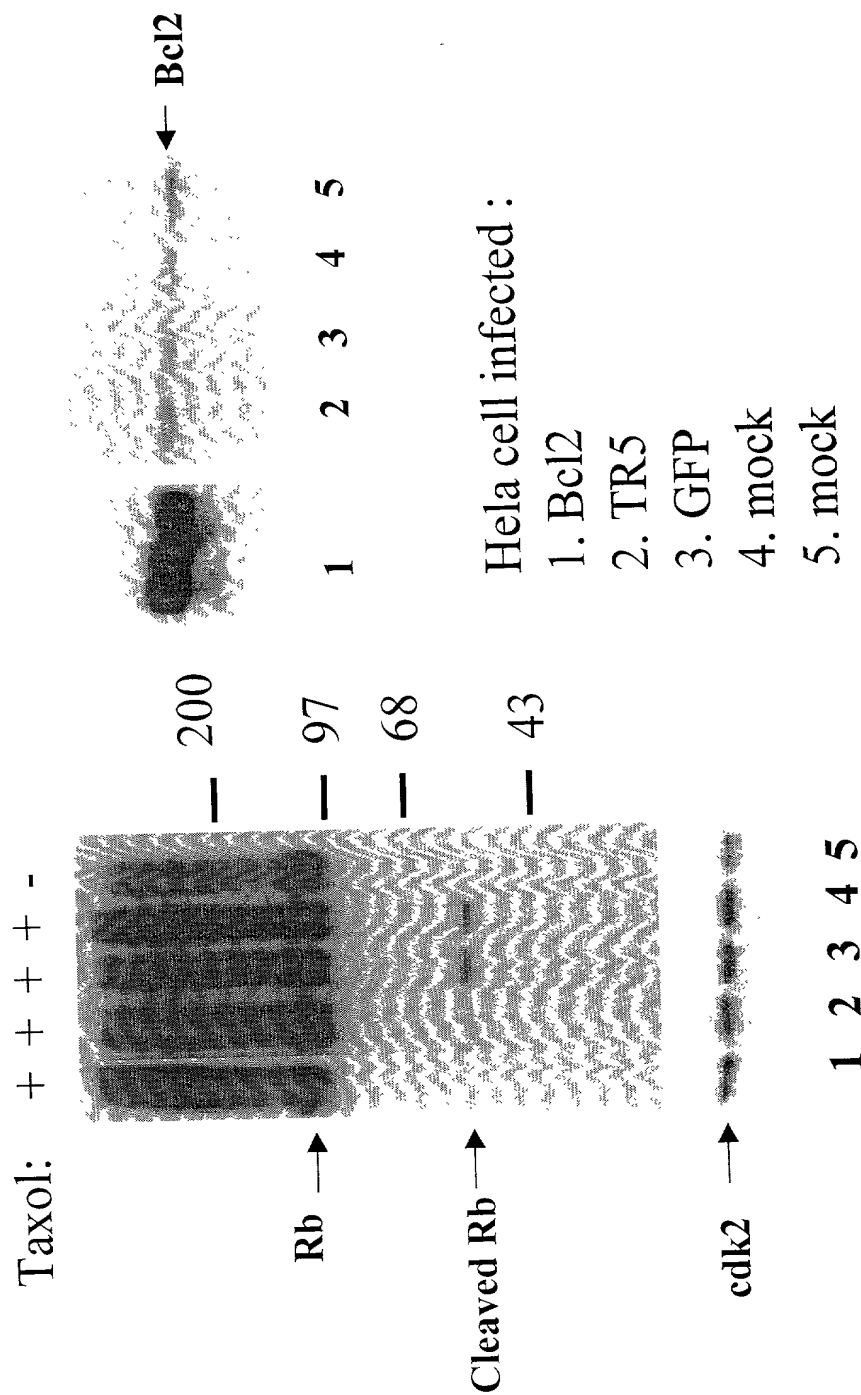


Fig. 10

# Expression of Mink3 message in human tissue

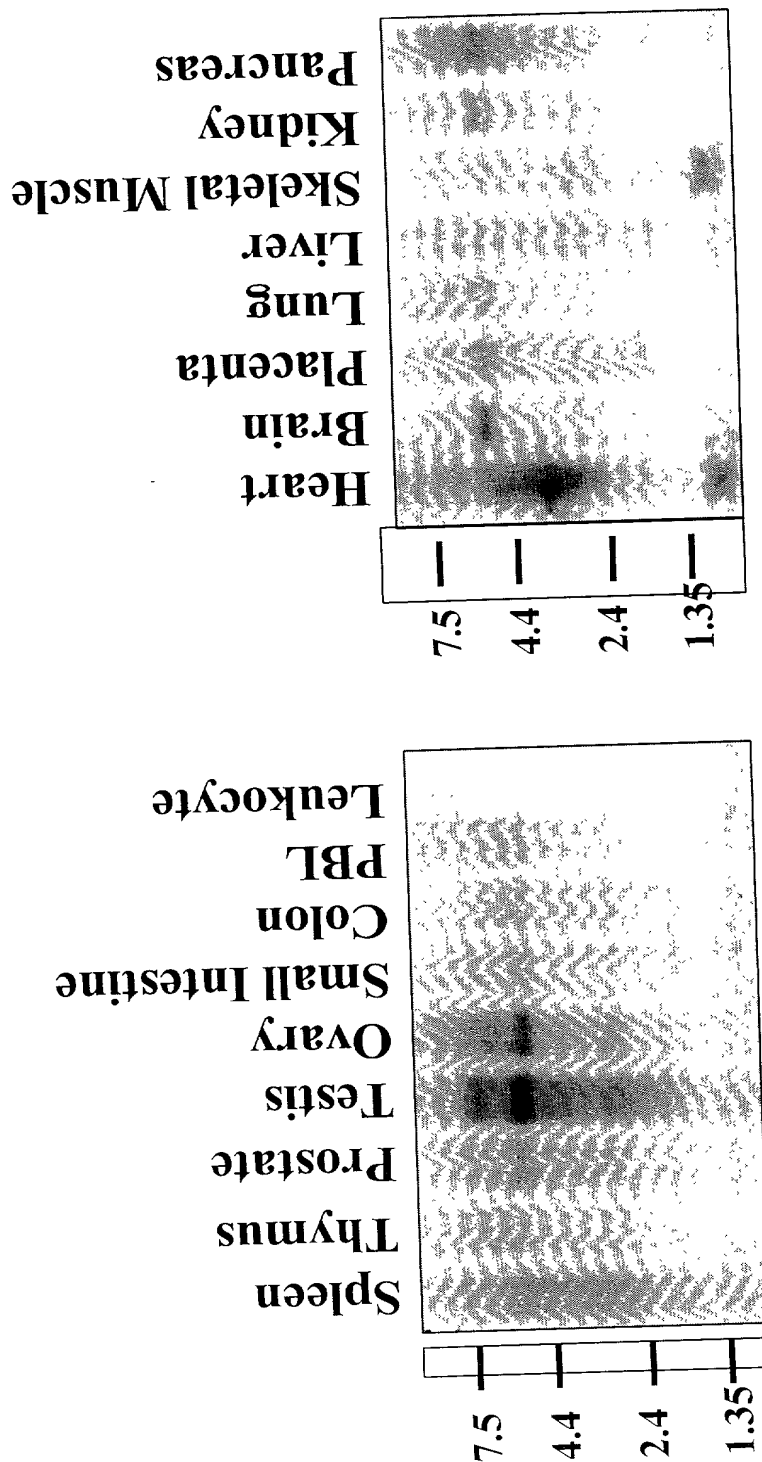


Fig. 11

# Expression of Mink3 message in tumor cell lines

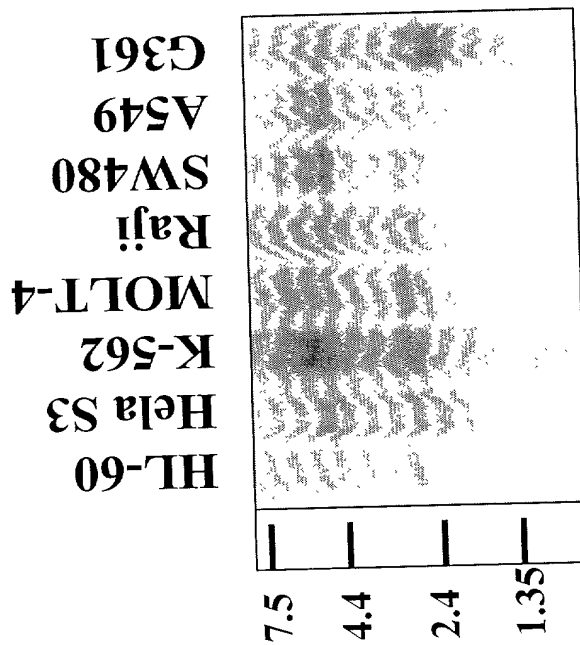


Fig. 12



# Mink3a activates JNK and ERK pathways

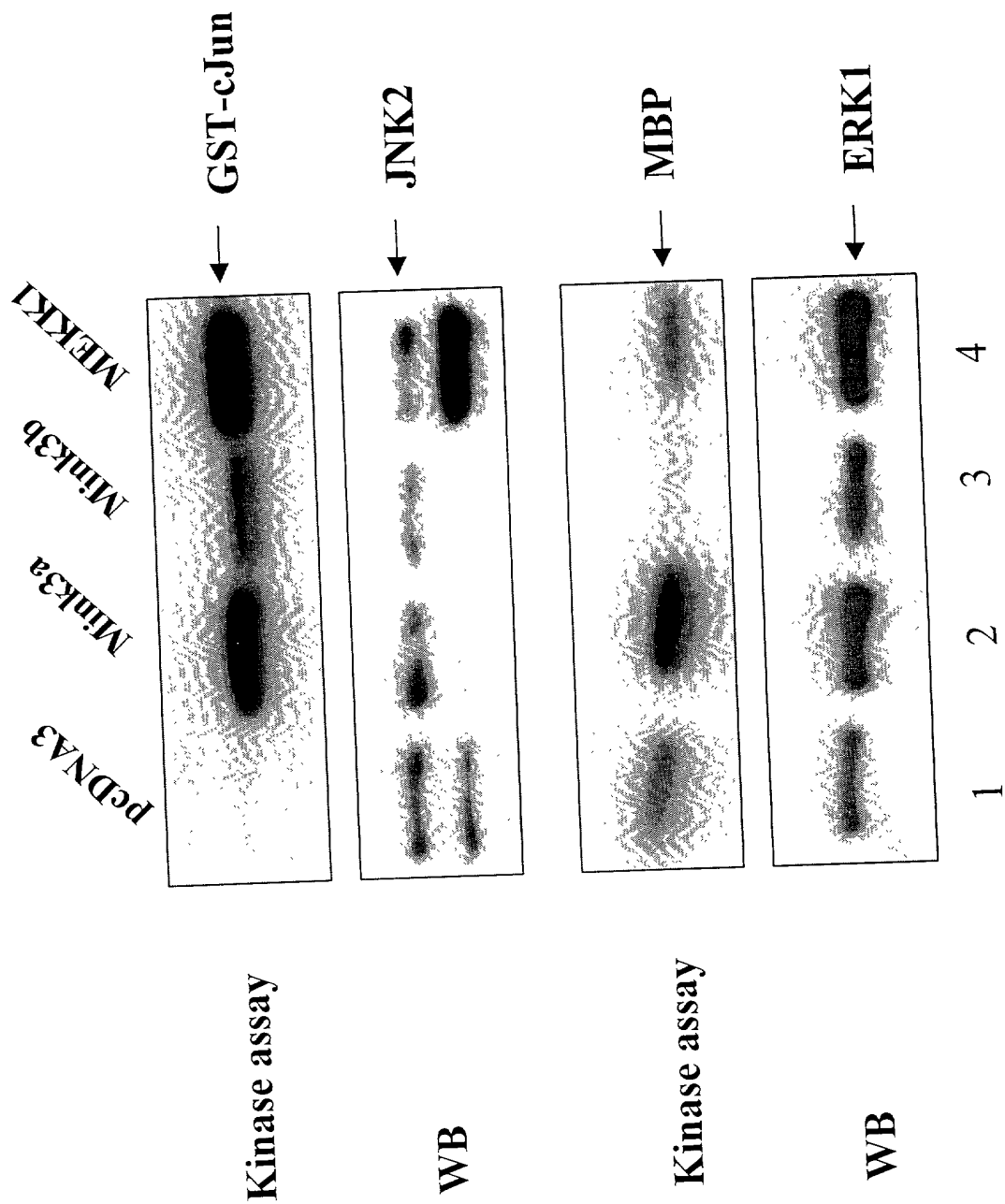


Fig. 13

# **Expression of Mink3a in MDA-MB-231 cells causes the cellular morphological change**

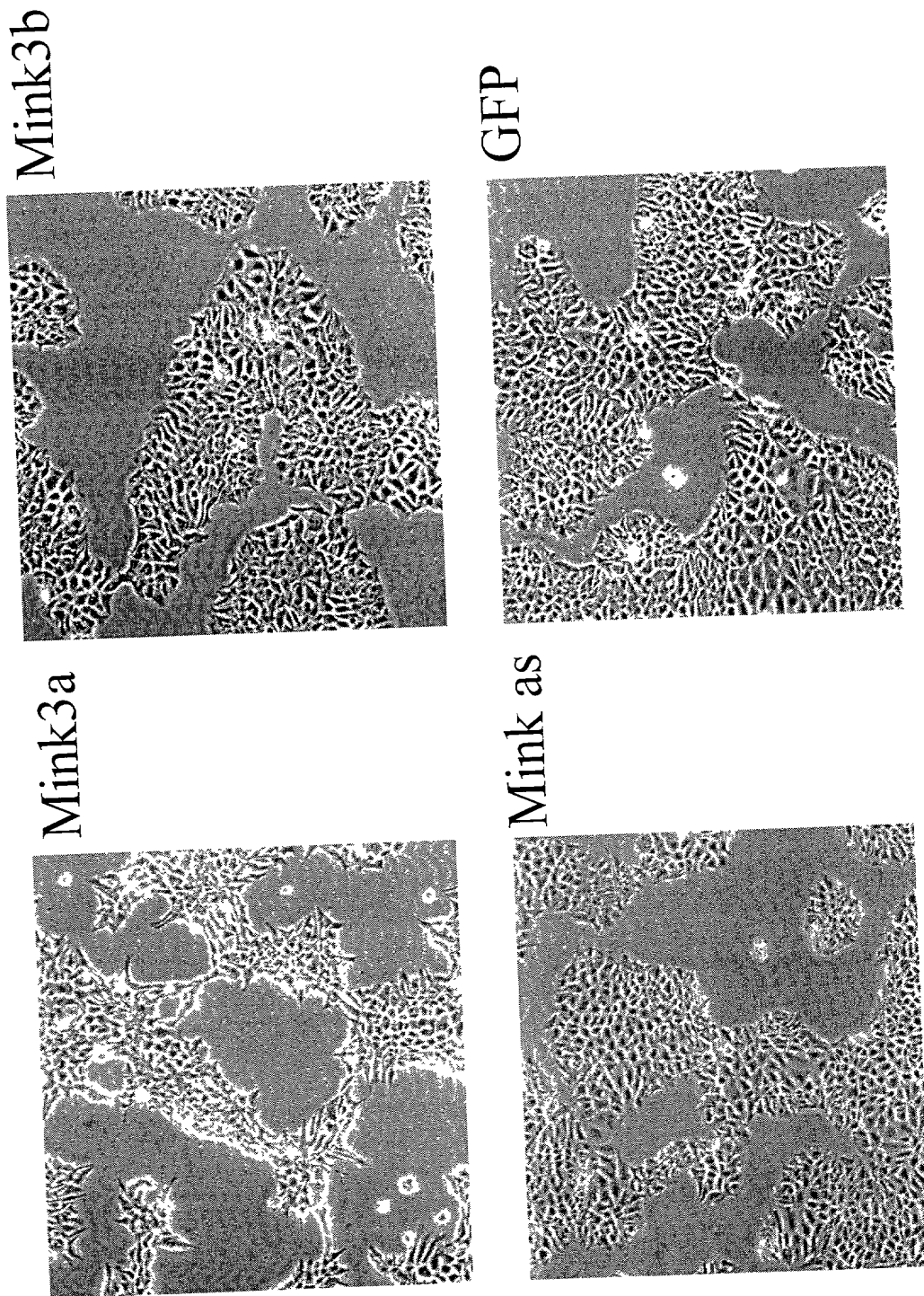
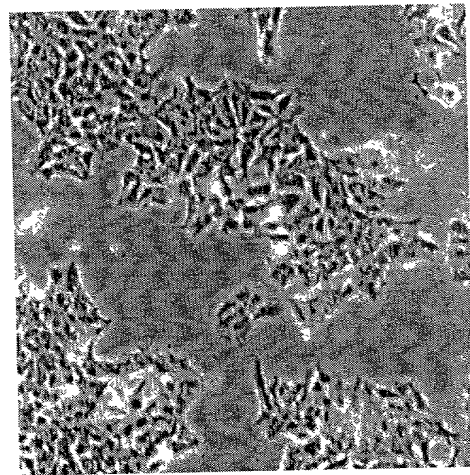
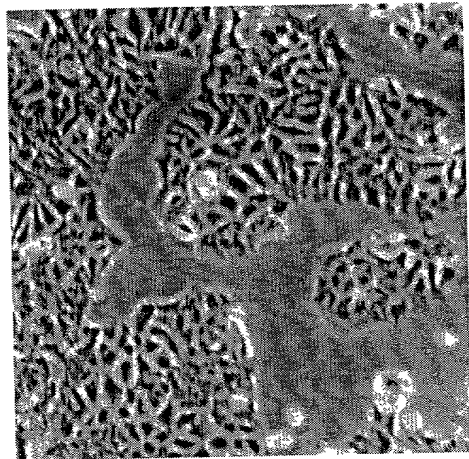


Fig. 14

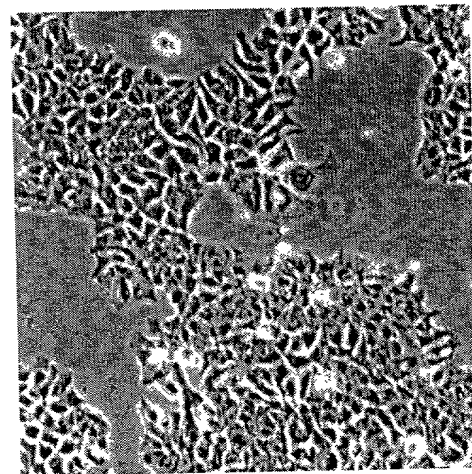
# MEK inhibitor restore the morphology of Mink3a infected MDA-MB-231 cells



Mink3a



Mink3a  
+PD98059



MDA-MB-231